

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re continuation application of: Peter Georgantzis  
Serial No.: Not yet known  
Filing Date: Not yet known  
Docket No.: 2000-012-B  
Title of Invention: Anti-Personnel Ammunition

**PRELIMINARY AMENDMENT**

Honorable Commissioner of Patents & Trademarks  
Washington, D.C. 20232

Sir:

Preliminary to examination, please amend the application as follows:

**IN THE DRAWING**

Enclosed, for approval by the Examiner, is FIG. 1 that contains proposed, hand-lined changes.

**IN THE SPECIFICATION**

Please add this paragraph on page 1 before the first line thereof.

- - - - **REFERENCE TO PREVIOUS APPLICATIONS**

This application is a continuation of application, serial number serial number 10/065,198 filed on 9/25/2002, by Peter Georgantzis, for :Anti-Personnel Ammunition the entire file wrapper contents of which applications are hereby incorporated by reference herein as though fully set forth at length. - - - .

Please change the paragraph at page 2, lines 2 - 11, by the following paragraph, to read as follows:

-- The described projectile comprises a central high density core penetrator together with a plurality of radially disposed blades surrounding the core and a plastic sheath for containment those items until used against targets. Thus, this device in addition to the anti-personnel capability also uses an armor piercing anti-tank penetrator core. Unfortunately, this approach is not practical should

there be no target upon which to direct fire. Additionally, it is less effective in that there is a reduced anti-personnel load payload, so enhancing the cost thereof. --

Please change the paragraph at page 5, lines 10 - 23, by the following paragraph, to read as follows:

-- With reference now to Fig. 1, there is shown anti-personnel ammunition 11 including a hollow casing or cartridge 12 having a base member and seal assembly 13 at one end thereof and an adapter case 14 at the other end thereof. Cartridge 12 is adapted to contain a propellant (not shown) and includes an electric primer 15 affixed to base member and seal assembly 13. Canister 16 mates with adapter case 14 and is affixed and held in place by obturators 17 and 18. Canister 16 is adapted with a cap 19 and includes a payload 20 which may comprise round steel balls, steel cubes, tungsten balls, a combination of steel balls and tungsten cubes, a combination of tungsten cubes and tungsten balls or flechettes. Canister 16 is also adapted with longitudinal grooves 21 which aid in the payload expulsion process. --

Please change the paragraph at page 6, lines 1 - 4, to read as follows: paragraph, as follows:

-- Upon exiting the tube, the air pressure on the closing cap 19 coupled with the longitudinal grooves in the Canister and centrifugal force caused by the rifled spinning breaks the Canister apart, so dispensing the payload 20 contained therein. --

Please change the paragraph at page 6, lines 11 - 20, by the following paragraph, to read as follows:

--The flat closing cap 19 and cone shaped of the Canister aid in enhancing the dispersion of the contents of the payload area. The described ammunition has been found to be of particular interest in 120mm guns. The unique design component is the use of the plastic or aluminum Canister which contains and expels the balls and/or cubes without the need for a fuzing or explosive charge system. Additionally, the use of tungsten bails and cubes is unique and it is anticipated that such application will prove to be more effective than previously used flechettes and steel balls. --